

2.2.5 Air Quality

The study area is in conformity with NAAQS. Air Pollution within the study area comes from four sources: dust and other local particulates, prescribed burns, regional haze, and power plants. Occasionally, high-particulate problems originate locally from wind-blown fugitive dust, dust from traffic on unpaved roads, construction activity, and wood stove and fireplace smoke. Dust from dirt roads generates the majority of public concern.

Prescribed burns are necessary to reduce fire risks, improve forest health, maintain wildlife habitat, and improve grazing resources. ADEQ permits this burning, and fire managers model the smoke dispersion characteristics to determine the best timing for prescribed burns. The regional haze originates outside the county.

Additionally, a multimillion-dollar study was conducted in the 1990s prior to the upgrade of pollution control equipment at the Four Corners Power Plant near Page. This study determined that activities on the west coast cause the largest degradation of air quality in the Four Corners region. Power plants located outside the region also cause air pollution. The most notable of these is the coal-fired Mohave Generating Station located near Laughlin, Nevada, which added pollution-control technologies in 2006. Table 2-3 shows the status of air quality non-attainment and maintenance areas.

Table 2.3 Air Quality Non-Attainment and Maintenance Areas

Focus Area	Air Quality Non-Attainment and Maintenance Area
Coconino-Yavapai	n/a
Navajo-Hopi	n/a
New River	n/a

Note: There are no non-attainment or maintenance areas within the study area.

2.2.6 Hazardous Materials

Preliminary information regarding potential hazardous materials in the study area was collected by searching the ADEQ website. No Initial Site Assessment (ISA) or Phase I Environmental Site Assessment (PISA) was conducted for any sites within the study area. No properties were identified or evaluated for potential hazardous materials. It is recommended that an ISA, in conformity with ASTM standards, is completed for the site of any proposed developments within the Northern Arizona Regional Framework study area.

Potential hazardous materials sites within the study area include sites that are categorized as one of the following: underground storage tanks (USTs); water quality assurance revolving fund (WQARF); Declaration of Environmental Use Restriction (DEUR); and leaking underground storage tanks (LUSTs). Sites were identified based on review of the ADEQ database for these site categories. Findings are presented by Focus Area below.

Coconino-Yavapai Focus Area

Approximately 1,251 UST locations were listed within Coconino County and approximately 1,029 UST locations were listed within Yavapai County. No violation notices have been issued for these sites, unless a facility is also listed as a LUST case. No WQARF sites were listed within Coconino or Yavapai Counties. Thirty DEUR sites are located within Coconino

County and 8 are located within Yavapai County. Additional investigation of these sites is recommended to determine if any of the sites contain LUSTs.

Navajo-Hopi Focus Area

Approximately 671 UST locations were listed within Navajo County and approximately 258 UST locations were listed within Apache County. No violation notices have been issued for these sites, unless a facility is also listed as a LUST case. No WQARF sites were listed within Navajo or Apache Counties. Twenty-four DEUR sites are located within Navajo County and no DEUR sites were identified within Apache County. Additional investigation of these sites is recommended to determine if any of the sites contain LUSTs.

New River Focus Area

The New River Focus Area is located at the southern portion of Yavapai County. Potential hazardous materials site locations were determined by county. Therefore, any potential hazardous materials sites within the New River Focus Area would be included as part of the Coconino-Yavapai Focus Area. Additional investigation is recommended to identify the specific location of potential hazardous materials sites within each of the Focus Areas.

2.2.7 Environmental References

- ADEQ 2008. Online Assistance. <http://www.azdeq.gov/function/assistance/online.html>. (Accessed: April 14, 2008)
- ADOT 2003. *Arizona Transportation Board Aviation Policies Plan*. Available online at: http://www.azdot.gov/aviation/pdf/stb_policy_2003.pdf. Accessed: April 14, 2008)
- ADFD 2008a. Heritage Data Management System. Special Status Species by County, Taxon, Scientific Name. Updated February 18, 2008. http://www.azgfd.com/w_c/edits/documents/ssspecies_bycounty_000.pdf. (Accessed: April 8, 2008).
- _____. 2008b. Species Abstracts. http://www.azgfd.com/w_c/edits/hdms_abstracts.shtml. (Accessed: April 8, 2008b).
- Arizona Native Plant Society, Rare Plants. <http://aznps.org/rareplants.html>. (Accessed: April 8, 2008).
- Efloras. www.efloras.org. (Assessed April 8, 2008)
- Hopi Nation Biological Technician, Darren Talayumptewa. Personal communication via telephone. April 7, 2008.
- NatureServe. 2008. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.0. NatureServe, Arlington, Virginia. Available <http://www.natureserve.org/explorer>. (Accessed: April 8, 2008).
- Navajo Nation Division of Natural Resources, Department of Natural Resources. Navajo Endangered Species List. August 9, 2005. http://nnhp.navajofishandwildlife.org/docs_reps/nesl_update08.pdf
- New Mexico Rare Plant Technical Council. 1999. New Mexico Rare Plants. Albuquerque, NM: New Mexico Rare Plants Home Page. <http://nmrareplants.unm.edu> (Latest update: 6 December 2007).
- Plants for a Future, 1996. Last modified: Nov 8, 1997. <http://www.pfaf.org/>. (Accessed: April 8, 2008).
- U.S. Census Bureau 2006. "Arizona Quickfacts." <http://quickfacts.census.gov/qfd/states/04000.html>. Website accessed April 14, 2008.